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(54) **HYDRAULIC TOOL HAVING RAM PISTON WITH INTEGRATED OVERLOAD ASSEMBLY**

(57) Embodiments of the invention provide a ram assembly for a hydraulic tool. The ram assembly includes a ram piston having a ram cavity. The ram piston receives a hydraulic pressure reaction force. The ram assembly further includes an overload assembly disposed in the ram cavity or in a cavity defined by a manifold. The overload assembly includes a burst disc positioned at a first end of the ram cavity or manifold, a lock nut positioned at a second end of the ram cavity or manifold, and a spacer positioned between the burst disc and the lock nut. The spacer transfers a supporting force applied to the lock nut to the burst disc. The hydraulic pressure reaction force and the supporting force both act in the same direction, and thus, are additive forces acting on the burst disk.

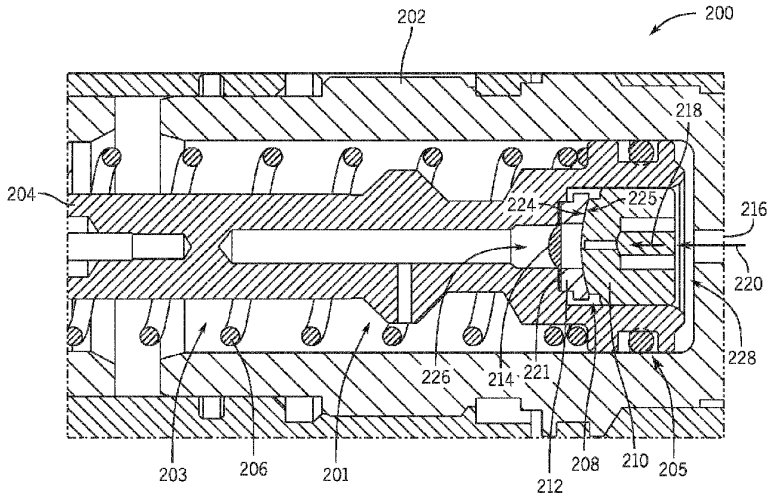


FIG. 2

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EUROPEAN SEARCH REPORT

Application Number
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F15B
B25H
B25F
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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	30 September 2024	Toffolo, Olivier

CATEGORY OF CITED DOCUMENTS

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